

CLAIMS:

1. A magnetic resonance imaging (MRI) system (1), comprising:
 - a housing (10) defining an examination space (2) for receiving a body for examination;
 - a magnetic field generating system (4) for generating a magnetic field in the examination space (2);
 - an electromagnetic resonance receive system (5) which comprises at least one dedicated receive coil (20);
 - wherein said at least one dedicated receive coil (20) is fixedly attached to the housing (10) or with respect to at least one transmit coil of the magnetic field generating system (4).
2. An MRI system according to claim 1, comprising multiple fixed dedicated receive coils located at different positions.
- 15 3. An MRI system according to claim 1, wherein the housing (10) comprises at least one cover plate (12) adjacent the examination space (2), wherein the dedicated receive coil (20) is fixed to the cover plate (12).
4. An MRI system according to claim 3, wherein the dedicated receive coil (20G)
20 is fixed to the interior of the cover plate (12) or to the exterior of the cover plate (12).
5. An MRI system according to claim 1, wherein the housing (10) comprises at least one cover plate (42) adjacent the examination space (2), wherein the dedicated receive coil (20I) is integrated in the cover plate (42).
- 25 6. An MRI system according to claim 1, wherein the dedicated receive coil (20) is formed in the shape of a cover plate of the housing.

7. An MRI system according to claim 3 or 5, wherein the cover plate (12, 42) is used as a detachable part of the housing (10).
8. An MRI system according to claim 7, wherein the cover plate (12, 42) comprises two or more plate segments (13), coupled to each other by hinges (14).
9. An MRI system according to claim 1, wherein the electromagnetic resonance receive system (5) further includes one or more transmit coils of the magnetic field generating system (4), these one or more transmit coils being used as receive coils.
10. An MRI system according to claim 1, wherein the electromagnetic resonance receive system (5) further includes one or more separate antenna elements.
11. An MRI system according to claim 1, further comprising a patient table (3) being displaceable into and out of the examination space (2), wherein the electromagnetic resonance receive system (5) further includes one or more receive coils (20J) mounted in or under the patient table (3), fixed to the patient table.